



2183

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

RECEIVED

09/847,068

May 1, 2001

APR 22 2004

Yoav Almog

Art Unit

2183 Technology Center 2100

Examiner Name

Gole, Amol V.

Total Number of Pages in This Submission

14

Attorney Docket Number

42390P10913

ENCLOSURES (check all that apply)

Fee Transmittal Form

Drawing(s)

After Allowance Communication to Group

Fee Attached

Licensing-related Papers

Appeal Communication to Board of Appeals and Interferences

Amendment / Response

Petition

Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)

After Final

Petition to Convert a Provisional Application

Proprietary Information

Affidavits/declaration(s)

Power of Attorney, Revocation Change of Correspondence Address

Status Letter

Extension of Time Request

Terminal Disclaimer

Other Enclosure(s) (please identify below):

Express Abandonment Request

Request for Refund

Return Receipt Postcard

Information Disclosure Statement

CD, Number of CD(s)

PTO/SB/08

Remarks

Certified Copy of Priority Document(s)

ROA includes replacement Abstract

Response to Missing Parts/ Incomplete Application

Basic Filing Fee

Declaration/POA

Response to Missing Parts under 37 CFR 1.52 or 1.53

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name

Walter T. Kim, Reg. No. 42,731

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Signature

Date

April 15, 2004

CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Typed or printed name

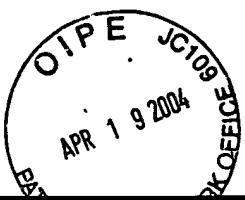
Marilyn Bass

Signature

Date

April 15, 2004

Based on PTO/SB/21 (02-04) as modified by Blakely, Sokoloff, Taylor & Zafman (wlr) 02/10/2004.
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



FEES TRANSMITTAL for FY 2004

Effective 01/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT **(\$)**

Complete if Known

Application Number	09/847,068
Filing Date	May 1, 2001
First Named Inventor	Yoav Almog
Examiner Name	Gole, Amol V.
Art Unit	2183
Attorney Docket No.	42390P10913

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METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

Deposit Account **02-2666**

Deposit Account Name **Blakely, Sokoloff, Taylor & Zafman LLP**

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or underpayment of fees as required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		FeePad
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1001	770	2001	385	Utility filing fee
1002	340	2002	170	Design filing fee
1003	530	2003	265	Plant filing fee
1004	770	2004	385	Reissue filing fee
1005	160	2005	80	Provisional filing fee

SUBTOTAL (1)

(\$)

2. EXTRA CLAIM FEES

Total Claims	Independent Claims	Extra Claims	Fee from below	FeePad
		- 20	=	
		- 3	=	

Multiple Dependent

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple Dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$)

**or number previously paid, if greater. For Reissues, see below

3. ADDITIONAL FEES

Large Entity	Fee Code	Fee (\$)	Small Entity	Fee Code	Fee (\$)	Fee Description	FeePad
	1051	130		2051	65	Surcharge - late filing fee or oath	
	1052	50		2052	25	Surcharge - late provisional filing fee or cover sheet	
	2053	130		2053	130	Non-English specification	
	1812	2,520		1812	2,520	For filing a request for ex parte reexamination	
	1804	920 *		1804	920 *	Requesting publication of SIR prior to Examiner action	
	1805	1,840 *		1805	1,840 *	Requesting publication of SIR after Examiner action	
	1251	110		2251	55	Extension for reply within first month	
	1252	420		2252	210	Extension for reply within second month	
	1253	950		2253	475	Extension for reply within third month	
	1254	1,480		2254	740	Extension for reply within fourth month	
	1255	1,210		2255	605	Extension for reply within fifth month	
	1404	330		2401	165	Notice of Appeal	
	1402	330		2402	165	Filing a brief in support of an appeal	
	1403	290		2403	145	Request for oral hearing	
	1451	1,510		2451	1,510	Petition to institute a public use proceeding	
	1452	110		2452	55	Petition to revive - unavoidable	
	1453	1,330		2453	665	Petition to revive - unintentional	
	1501	1,330		2501	665	Utility issue fee (or reissue)	
	1502	480		2502	240	Design issue fee	
	1503	640		2503	320	Plant issue fee	
	1460	130		2460	130	Petitions to the Commissioner	
	1807	50		1807	50	Processing fee under 37 CFR 1.17(q)	
	1806	180		1806	180	Submission of Information Disclosure Stmt	
	8021	40		8021	40	Recording each patent assignment per property (times number of properties)	
	1809	770		1809	385	Filing a submission after final rejection (37 CFR § 1.129(b))	
	1810	770		2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
	1801	770		2801	385	Request for Continued Examination (RCE)	
	1802	900		1802	900	Request for expedited examination of a design application	
	Other fee (specify)						

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Walter T. Kim	Registration No. (Attorney/Agent)	42,731	Telephone	(310) 207-3800
Signature	<i>Walter T. Kim</i>			Date	04/15/04

Based on PTO/SB/17 (10-03) as modified by Blakely, Sokoloff, Taylor & Zafman (wtr) 02/10/2004.
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



Attorney's Docket No. 42390.P10913

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Yoav Almog et al.

Application No.: 09/847,068

Filed: May 1, 2001

For: **SPECULATIVE BRANCH TARGET
ALLOCATION**

Examiner: Gole, Amol V.

Art Unit: 2183

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APR 22 2004

Technology Center 2100

AMENDMENT AND RESPONSE TO OFFICE ACTION

Mail Stop Non-Fee Amendment
Commissioner for Patents
P. O. 1450
Alexandria, VA 22313-1450

Dear Commissioner:

In response to an Office Action having a mailing date of February 20, 2004, please amend the above-identified patent application as follows and consider the following remarks.

IN THE TITLE

Please change the title to:

SPECULATIVE BRANCH TARGET ALLOCATION USING A SEPARATE CACHE
FOR STORING SPECULATIVE TARGETS

IN THE ABSTRACT

Please replace the Abstract with the following new Abstract:

A method and apparatus are described for improving branch prediction. The method includes determining a target of a branch instruction and storing the target of the branch instruction before the branch instruction is fully executed. The method further includes re-encountering the branch instruction and predicting a target for the branch instruction by accessing the stored target for the branch instruction.